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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-28-10** **Date: 30-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 6th cross and other cross road besides of Sub Division office Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/360/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-10 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-03-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	553	679	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	578	690	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory

Note:

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ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-03-27-04** **Date: 29-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 6th cross and other cross road besides of Sub Division office Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/360/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-2018
Sample ID No	:	2018-03-27-04/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	27-03-2018
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	216	216	2.0	98.0	95-100
22.4	2198	2414	21.9	78.1	60-80
11.2	2109	4523	41.1	58.9	40-60
4.75	2588	7111	64.6	35.4	25-40
2.36	1569	8680	78.9	21.1	15-30
0.6	598	9278	84.3	15.7	8-22
0.075	1562	10840	98.5	1.5	0-5

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Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-03-27-04** **Date: 29-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 6th cross and other cross road besides of Sub Division office Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/360/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-2018
Sample ID No	:	2018-03-27-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	27-03-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	306.6	306.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	66.8	64.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	239.3	241.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.4
5	Aggregate impact value	(B/A)*100	21.8	21.1
6	Aggregate impact value (Mean of two tests)	Pecentage	21.5	

Note:-

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Quality Manager

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-03-27-04** **Date: 29-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 6th cross and other cross road besides of Sub Division office Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/360/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-2018
Sample ID No	:	2018-03-27-04/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	27-03-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.1%	
Combined Flakiness and Elongation Index for WMM	21.5%	

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Authorized Signatory
Quality Manager

End of Report

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-28-10** **Date: 31-03-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 6th cross and other cross road besides of Sub Division office Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/360/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-03-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-28-10** **Date: 26-04-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 6th cross and other cross road besides of Sub Division office Ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/360/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-03-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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